



REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238 • 412-963-1106

December 8, 1987

Project No. 87313

**RECEIVED**

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**SARA, Special Site Section  
EPA, Region III**

Ms. Patricia Tan (3HW17)  
Environmental Engineer  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Building  
Philadelphia, PA 19107

Transmittal  
November 1987 Status Report  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

Per the requirements of the Final Administrative Order by Consent (ACO) of January 1987, Remcor, Inc. (Remcor) is submitting the attached as the initial project status report for the above Remedial Investigation/Feasibility Study (RI/FS). Remcor is acting as the environmental consultant for Bally Engineered Structures (BES) in this project. Future status reports will be submitted on a monthly basis; the next reporting period will be the month of December.

As you are aware, the field work for this RI/FS was initiated on November 9, 1987 and laboratory analyses of soil samples collected during November will not be available until mid- to late-December. A second field sampling activity will be undertaken in early January, encompassing monitoring wells, as well as industrial, municipal, and residential wells and the wetland area north of the BES plant. The December and January progress reports will include the appropriate data summaries.

On November 12, 1987, Remcor had submitted responses to final EPA comments on project plans. Because we have received no further comments from your office, I assume that these responses were acceptable and that Remcor and BES now have full EPA-approval of the project plans.

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Ms. Patricia Tan

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December 8, 1987

Please feel free to contact me if you have any questions or comments regarding this submittal.

Very truly yours,

*John George*

John A. George  
Project Manager

JAG:rmv  
Attachment

cc: Mr. Stephen Wilner (all w/enc.)  
Mr. William Goodin  
Mr. Robert Collings  
Mr. Jeffrey Orient (NUS Corporation)  
Mr. Thomas Sheehan (PADER, Bureau of Solid Waste)

200499

ATTACHMENT

AR300500

200300



"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA

MONTH OF NOVEMBER 1987<sup>(1)</sup>

Actions Taken During the Reporting Period

Remcor, Inc. (Remcor) is acting as the environmental consultant to Bally Engineered Structures (BES) in the performance of the Remedial Investigation/Feasibility Study (RI/FS). On November 12, 1987, Remcor submitted responses to final comments received in draft form on October 28, 1987. No further comments were received from EPA Region III on these responses.

During the reporting period, Remcor selected McKay & Gould Drillers, Inc. of Darlington, Pennsylvania to perform test boring and monitoring well installation during the RI. Remcor also selected Empire Soils Investigations of Highland Park, New Jersey to perform test boring and well installation within the current Carpentry Shop (Test Borings SS-10 through SS-13 and Well 87-13S). Specialized drilling equipment is required to perform drilling and well installation within the building.

Drilling and monitoring well installation were initiated on November 9. During the week of November 9, exploratory Corehole E-1 was initiated with completion and geophysical logging (Appalachian Coal Surveys, Pittsburgh, Pennsylvania) of the hole on November 16. Upon completion of logging, the corehole was grouted shut and abandoned per the approved Work Plan Scope of Work (SOW).

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(1) This is the first report mandated by the Administrative Order by Consent (ACO) of January 1987. Preliminary authorization to proceed was received from Ms. Patricia Tan, EPA Region III Project Officer, on October 28, 1987. Formal authorization was received on November 16, triggering the requirement for monthly reporting.

During the period from November 16 through 25, soil borings were completed into the former lagoon areas outside of the BES plant (SS-1 through SS-4), and Soil Boring SS-9 was completed in the vicinity of the current small parts degreasing area. Ten soil samples were submitted to the NUS Corporation (NUS) Laboratory Services Division (LSD) from these test borings, for Contract Laboratory Program (CLP) volatile organics analysis.

Monitoring Well Nos. 87-7I, 87-7S, 87-9I, and 87-12D were also completed from November 16 through 25. The first scheduled field systems audit was conducted during the test boring activities on November 17 and 18. No irregularities were noted during this audit.

Four soil borings were completed through the concrete floor of the Foaming Shop on November 29 and 30. A total of eight soil samples were submitted to NUS LSD for CLP volatiles analysis.

#### Results of Field Environmental Measurements

Analytical results will not be available until mid-December from the NUS LSD. Preparation of logs for the monitoring wells, as well as other reduction of field notes, will be undertaken immediately upon conclusion of the drilling program in mid-December.

In general, however, soils taken from test borings into the former lagoon areas outside of the BES plant did not evidence presence of volatile organic contaminants (VOCs) as measured by the HNu. Soils from SS-9 in the vicinity of the current degreasing area exhibited low VOCs. VOCs appeared to be highest from four to six feet. Soils extracted from borings into the former lagoon areas underlying the current Foaming Shop also exhibited low VOC levels; highest concentrations tended to be found below five feet. The actual presence of volatile organics remains to be confirmed through laboratory analysis of samples taken from these sampling points. Conclusive physical evidence of remains of the former lagoon areas and their contents was not found in any of the borings.

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Drilling and geophysical logging of the exploratory corehole (E-1) revealed the existence of a single, thick aquifer, occurring within the Triassic Age Brunswick Formation and the overlying residual clayey silt material. Bedrock was found to be extremely fractured, particularly within the upper 100 feet of the aquifer. Yields from the corehole and from Wells 87-12D and 87-7I were in excess of 100 gallons per minute (gpm). Drilling of the monitoring wells generally substantiated information obtained from the corehole, except that Well 87-9I has exhibited a markedly lower yield (i.e., only a few gpm). No positive readings were observed on the HNu during screening of the corehole or any of the monitoring well borings thus far.

#### Upcoming Activities

Monitoring well installation remote from the BES plant will be concluded by mid-December. Due to schedule constraints on the part of Empire Soils Investigations, it has been necessary to delay the work in the Carpentry Shop originally scheduled for the week of November 30. Performance of the six soil borings and installation of Well 87-13S has been deferred until the week of January 4, 1988 to coordinate these activities with upcoming sampling activities.

Sampling of residential, municipal, industrial, and monitoring wells, and collection of surface water and sediment samples from the wetland area north of the BES plant will be performed during the week of January 4, 1988. Soil samples will also be collected from the soil borings performed within the Carpentry Shop at this time.

Continuous water level recorders will be installed on three wells after sampling has been completed to monitor ground water levels in advance of the conduct of a pumping test at Bally Well No. 3. The subject pumping test has been tentatively scheduled for mid-January; the schedule for this activity is dependent on the installation of a treatment system at Well No. 3 so that this municipal well can be returned to service as an alternate water supply for the Borough.

200503

Description of Problems Encountered

No specific problems have been encountered thus far in the investigation. Adjustments in the schedule have been necessary, as noted above, but these have been accommodated without effect on the overall project schedule.

Access permission for well installation from affected landowners is virtually complete and poses no problem at this time with respect to completion of the drilling and well installation program by mid-December.

Although not specifically a problem, Remcor and BES have investigated the feasibility of using two domestic wells to substitute for wells to be installed in the program. It has been determined that the Bauman well is a suitable substitute for Well 87-9S, provided that the well pump is found to be functional. This will be checked by the landowner during the week of December 5, 1987. In addition, a well at a residence on North Church Street may substitute for proposed Well 87-6I. Approval to use this well is currently pending from the landowner. The final Work Plan had indicated that a suitable substitute for 87-6I would be sought. Ms. Bauman refused to permit a well to be drilled on her property; however, permission was secured from a nearby property owner, Mr. Pascal Gehringer, for installation of 97-9I.

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AR300504





REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238 • 412-963-1106

January 6, 1988

Project No. 87313

Ms. Patricia Tan (3HW17)  
Environmental Engineer  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Building  
Philadelphia, PA 19107

Transmittal  
December 1987 Status Report  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

Per the requirements of the Final Administrative Order by Consent (ACO) of January 1987, Remcor, Inc. (Remcor) is submitting the attached project status report for the above remedial investigation/feasibility study (RI/FS). Remcor is acting as the environmental consultant for Bally Engineered Structures (BES) in this project. This status report documents activities conducted during the month of December. During this period, well installation was completed and subsoil samples were obtained from locations SS-5 through SS-8, inclusive, underlying the plant floor.

Please feel free to contact me if you have any questions or comments regarding this submittal.

Very truly yours,

John A. George  
Project Manager

JAG:em  
Attachment

cc: Mr. Stephen Wilner (all w/att.)  
Mr. William Goodin  
Mr. Robert Collings  
Mr. Jeffrey Orient (NUS Corporation)  
Mr. Thomas Sheehan (PADER, Bureau of Solid Waste)

820505



MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA

DECEMBER 1987

This is the second of the monthly reports mandated by the Administrative Order by Consent (ACO) of January 1987. Preliminary authorization to proceed was received from Ms. Patricia Tan, U.S. Environmental Protection Agency (EPA), Region III Project Officer, on October 28, 1987. Formal authorization was received on November 16, 1987.

Actions Taken During the Reporting Period

Remcor, Inc. (Remcor) is acting as the environmental consultant to Bally Engineered Structures (BES) in the performance of the Remedial Investigation/Feasibility Study (RI/FS). On November 12, 1987, Remcor submitted responses to final comments received in draft form on October 28, 1987. Remcor was advised by Ms. Patricia Tan, EPA Region III Project Officer, on December 11, 1987 that the responses had been accepted.

Drilling and monitoring well installation continued from December 1 through December 16, 1987. Monitoring Wells 87-4I, 87-8I, 87-10I, 87-10D, 87-11S, and 87-11I were completed during this period. This work was performed by McKay & Gould Drillers, Inc. of Darlington, Pennsylvania, under the field supervision of a Remcor geologist.

Logs for Soil Test Borings SS-1 to SS-9 and exploratory Corehole E-1 have been completed. All monitoring well logs and construction diagrams will be completed by mid-January 1988, and will be submitted with the January status report.

Some geologic trends were observed during drilling of the monitoring wells and test borings. At most locations, a mantle of brown silt to clayey silt was found extending no deeper than 12 feet. Generally, small amounts of gravel, comprised of gneissic, granitic, and quartzitic

AR300506

material were often found within and at the base of this surface layer. Below this horizon, reddish-brown clayey silt residuum was found overlying limestone breccias (fanglomerate) with interbedded reddish-brown shales and siltstones in all intermediate and deep monitoring wells.

Within the fanglomerate/shale, weathered fracture zones up to a few feet in width accounted for the majority of ground water flow during drilling. Well yields in excess of 100 gallons per minute were common. The frequency of fracture zone occurrence, the thickness of the overlying residual material, and total well yields decreased with increasing distance from the contact with the Reading Prong just northwest of the Borough of Bally.

#### Results of Field Environmental Measurements

No additional sampling was performed during December 1987. Analytical results for soil samples collected November 17 and 18 from Borings SS-1 through SS-4 and SS-9 were received verbally from NUS Laboratory Services on December 31, 1987. Preliminary data indicate that the only volatile organics present (concentrations generally less than 20 micrograms per gram [ $\mu\text{g/g}$ ]) were typical laboratory contaminants (i.e., methylene chloride, acetone, and toluene). These three species were found in blank media (i.e, potting soil), as well. Results from the November 29 and 30 (SS-5 through SS-8) sampling tour are pending.

#### Upcoming Activities

Sampling of residential, municipal, industrial, and monitoring wells and collection of surface water and sediment samples from the wetland area north of the BES plant will be performed beginning January 4, 1988. Also, the six soil borings and Monitoring Well 87-13S proposed for the Carpentry Shop will be completed at this time. Soil samples will be collected from these borings.

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Remcor will forward final analytical results to Mr. Carey Jackson of Support Systems, Fort Collins, Colorado for validation. Copies of the validated data will then be forwarded to the EPA.

The second systems audit will be conducted with sampling during the week of January 4, 1988. Conduct of a pumping test at Bally Well No. 3 will be undertaken as soon as a wellhead treatment system (air stripping) has been installed.

Description of Problems Encountered

No major problems have been encountered in the investigation. Necessary adjustments to the original work schedule have been accommodated with no effect on the overall project schedule. Although conduct of the large-scale aquifer pumping test has been delayed pending installation of wellhead treatment, RI data reduction and sample analyses will proceed independent of this activity.

200508

AR300508

"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"





REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238 • 412-963-1106

June 23, 1988

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Bally Engineered Structures Site  
Resumption of RI/FS Activities  
Project Review Meeting

Dear Ms. Tan:

As we had discussed on June 17, Remcor, Inc. (Remcor) has been given authorization to proceed with the Remedial Investigation/Feasibility Study (RI/FS) at the Bally Engineered Structures (BES) Site. Remcor will be completing this project under contract to Allegheny International, Inc. (AI).

Remcor had ceased work on this project on February 15, 1988, as a result of AI's request for reorganization under Federal bankruptcy regulations. We are pleased to inform you that AI's request for approval of Remcor's proposal to continue this project was affirmed by the bankruptcy court on June 9, 1988. Mr. Stephen Wilner, AI Corporate Manager for Industrial and Environmental Health, has been instrumental in seeking approval for the completion of this project. I am sure that you are aware of his efforts in keeping your office informed of project status over the past few months.

We anticipate meeting with you on June 29 at 1:00 in your offices in Philadelphia to discuss the schedule for completion of the RI/FS. I understand that you have requested Mr. Thomas Sheehan, State Project Officer for the RI/FS, to attend this meeting. Please feel free to

203599

Ms. Patricia Tan 3HW17

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June 23, 1988

contact us prior to the meeting to discuss any project issues requiring more immediate attention.

Very truly yours,

*John George*

John A. George  
Project Manager

JAG:jl1

cc: Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

200510

AR300510

"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"





REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238 • 412-963-1106

July 11, 1988

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, Pennsylvania 19107

Transmittal  
Project Status Report - June 1988  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

As you are aware from our meeting on June 29, 1988 Remcor, Inc. (Remcor) was authorized on June 15 by Allegheny International, Inc. (AI) to proceed with the RI/FS on the above site. Enclosed please find a technical progress report for the month of June; subsequent reports will be provided at the close of each calendar month in accordance with the Administrative Order by Consent of January 28, 1987.

Please feel free to contact us if you have any questions or comments relative to this project. We look forward to resuming work and bringing this project to a successful conclusion.

Very truly yours,

John A. George  
Project Manager

cc: (all w/ att)

Mr. Thomas F. Sheehan, Pennsylvania Department of Environmental Resources  
Mr. Jeffrey P. Orient, NUS Corporation  
Mr. Stephen M. Wilner, Allegheny International, Inc.  
Robert L. Collings, Esquire, Morgan, Lewis, & Bockius

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF: JUNE 1988\*

\*Project work was placed on indefinite hold as of February 12, 1988 pending resolution of the financial situation of Allegheny International, Inc. (AI). In February 1988 AI filed for protection under Chapter 11 of the Federal Bankruptcy Code. On June 9, 1988 the bankruptcy court approved AI's acceptance of a proposal by Remcor, Inc. (Remcor) to complete the Remedial Investigation/Feasibility Study (RI/FS) initiated in October 1987. The last formal progress report submitted on this project was for the month of January 1988.

**Actions Taken During the Reporting Period**

Remcor is acting as the environmental consultant to AI in the performance of the RI/FS. On June 15, 1988 Remcor was authorized by AI to complete the RI/FS. A project initiation meeting was held in U. S. Environmental Protection Agency (EPA) Region III Offices on June 29, with the following persons present:

Patricia Tan	EPA Regional Project Manager
Rosanne Mistretta	Assistant Regional Counsel, EPA Region III
Thomas Sheehan	Project Officer, Pennsylvania Department of Environmental Resources, Division of Emergency and Remedial Response
Stephen M. Wilner	AI Corporate Manager, Industrial and Environmental Health
Robert L. Collings	Morgan, Lewis, & Bockius
John A. George	Project Manager, Remcor

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Remcor has submitted the remaining analytical data for validation by Support Systems of Fort Collins, Colorado. Remcor has also begun completion of review and evaluation of data from site studies completed in January 1988.

An air stripping tower, necessary for treatment of water from Bally Well No. 3 as an alternative municipal water supply, has been ordered and fabrication has begun. Delivery is anticipated by mid-August. Necessary field construction activities prefatory to installation of the tower have also been initiated.

#### **Results of Field Environmental Measurements**

No field measurements were made during the reporting period.

#### **Upcoming Activities**

A schedule of events through project completion was provided during the project initiation meeting. Major milestone dates include the initiation of air stripping treatment at Bally Well No. 3 in mid-August, with a continuous pumping test on this well conducted immediately thereafter; submittal of the draft RI Report to the EPA for review in late October 1988; submittal of the draft FS Report to EPA for review in early December; and submittal of the final draft RI/FS Report in mid-February 1989.

Data validation, reduction, and evaluation will proceed; however, finalization of the RI Report and evaluation of wellhead treatment at Bally Well No. 3 cannot be completed until the air stripper has been installed and tests completed to evaluate response of the aquifer and efficiency of treatment. These studies will be completed in late August. Approximately two weeks prior to the pumping test, Remcor will install continuous water level recorders on three wells to obtain baseline data on the aquifer.

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**Description of Problems Encountered**

No specific problems have been encountered thus far in resuming the investigation.

230514



REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238 • 412-963-1106

August 8, 1988

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection  
Agency, Region III  
841 Chestnut Street  
Philadelphia, Pennsylvania 19107

Transmittal  
Project Status Report - July 1988  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

Enclosed please find the technical progress report for the month of July 1988. Please feel free to contact us if you have any questions or comments relative to this submittal or this project.

Very truly yours,

*Robert J. Markneel* for

John A. George  
Project Manager

JAG:rmv  
Attachment

cc: (all w/ att)

Mr. Thomas F. Sheehan, Pennsylvania Department of Environmental Resources  
Mr. Jeffrey P. Orient, NUS Corporation  
Mr. Stephen M. Wilner, Allegheny International, Inc.  
Robert L. Collings, Esquire, Morgan, Lewis, & Bockius

880515

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF JULY 1988

800516

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"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF JULY 1988

Actions Taken During the Reporting Period

Remcor, Inc. (Remcor) is acting as the environmental consultant to Allegheny International, Inc. (AI) in the performance of the Remedial Investigation/Feasibility Study (RI/FS). During the month of July 1988, final chemical-analytical validation reports were received from Support Systems, Inc. Data tabulation was initiated. Additional hydrogeologic data reduction was undertaken, including the design of the upcoming pumping test to be conducted in August 1988.

Results of Field Environmental Measurements

No field measurements were made during the reporting period.

Upcoming Activities

Remcor anticipates that installation of air stripping treatment on Bally Well No. 3 will be complete by the week of August 29, 1988. Remcor will initiate the aquifer pumping test on or about September 6, 1988 to determine the feasibility of using the municipal well to capture volatile organic ground water contamination. Remcor will install continuous water level recorders on two wells to obtain baseline data on the aquifer during the week of August 15, 1988.

Submittal of the draft RI Report for EPA review is still anticipated in late-October 1988, with submittal of the draft FS in early-December and submittal of the final draft RI/FS Report in mid-February 1989.

Description of Problems Encountered

No specific problems have been encountered thus far in resuming the investigation. The work is generally proceeding in accordance with the project schedule outlined to the EPA in our project initiation meeting of June 29, 1988.

200317

AR300517





REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

September 6, 1988

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal:  
Project Status Report - August 1988  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is pleased to forward the August 1988 monthly status report for the above-captioned project. As you will note, we have experienced an unanticipated delay of about two weeks in installation and startup of the air stripping tower on Bally Municipal Well No. 3. At this time, however, we do not anticipate that this delay will affect the overall project schedule.

Please feel free to contact us if you have any questions or comments relative to this project.

Very truly yours,

John A. George  
Project Manager

JAG:jll

cc: (all w/att)  
Robert L. Collings, Esquire  
Mr. Thomas F. Sheehan  
Mr. Jeffrey P. Orient  
Mr. Stephen M. Wilner

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MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF: AUGUST 1988

Actions Taken During the Reporting Period

During this period, Remcor completed tabulation of chemical-analytical data and reviewed existing hydrogeologic data. Specific plans were made for performance of the aquifer pumping test at Bally Municipal Well No. 3, to be conducted as soon as installation and startup of the wellhead treatment unit (air stripper) have been completed.

The air stripping tower was delivered to the site on August 22, and installation continued through the remainder of the reporting period. During August 24 and 25, Remcor personnel installed continuous water level recorders on 1) Plant Site Well, 2) Well 87-7I, and 3) Well 87-10D. The purpose of these recorders is to obtain baseline aquifer data prior to pumping of Well No. 3.

Analytical results from residential wells were forwarded to the respective well owners on August 26, with a copy to both the U.S. Environmental Protection Agency (Ms. Patricia Tan) and the Pennsylvania Department of Environmental Resources (Mr. Thomas Sheehan).

Results of Field Environmental Measurements

Water level measurements in all monitoring wells were obtained on August 25. Results will be tabulated in the Remedial Investigation (RI) Report.

Upcoming Activities

Remcor anticipates that installation of air stripping treatment on Bally Well No. 3 will be completed by the week of September 5, and that start-up activities will be concluded during the week of September 12. The aquifer pumping test will be conducted during the week of September 19.

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Description of Problems Encountered

Minor delays in fabrication and delivery of the air stripping unit and necessary piping have occurred. As a result, the aquifer pumping test has been delayed approximately two weeks, and will be conducted during the week of September 19. This delay is not expected to affect submittal of the draft RI Report, scheduled for late October.

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REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

October 6, 1988

Project No. 88548.12

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection  
Agency, Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal  
Project Status Report - September 1988  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is pleased to forward the September 1988 monthly status report for the above-captioned project. As we had discussed on September 21, 1988, a delay of approximately two weeks in performance of the aquifer pumping test has necessitated a revision in the submittal date of the draft remedial investigation report from the end of October until mid-November. We do not expect any further delays, however, in submittal of the remaining project reports.

Please feel free to contact us if you have any questions or comments relative to this submittal or this project.

Very truly yours,

John A. George  
Project Manager

JAG:rmv  
Attachment

cc: (all w/attachment)  
Mr. Thomas F. Sheehan  
Mr. Jeffrey P. Orient  
Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

200521

AR300521



MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF SEPTEMBER 1988

200522

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF SEPTEMBER 1988

Actions Taken During the Reporting Period

Final installation of the air stripping tower and necessary piping at Bally Municipal Well No. 3 was completed by Remcor, Inc. (Remcor), with assistance from various subcontractors, during the week of September 11, 1988. The initial treatability testing of the air stripping system was completed on September 28.

Three continuous water level recording instruments were installed on Observation Wells 87-12, 86-3I, and 86-5D during the week of September 18 to obtain additional background data prior to conducting the aquifer pumping test. These recorders complemented the three recorders installed on August 24 and 25, 1988 on the Bally Engineered Structures (BES) Plant site well, and Wells 87-7I and 87-10D.

Final plans were completed for performance of the aquifer pumping test. Additional sections of the Remedial Investigation (RI) Report were completed, including a description of the nature and extent of ground water contamination and a preliminary risk assessment.

Results of Field Environmental Measurements

Water level measurements in all monitoring wells were obtained during the week of September 18, and continuous water level measurements were obtained from the recorders during the reporting period. These results will be incorporated into the RI Report.

In addition, samples from the inlet to and outlet from the air stripper were obtained periodically during the treatability testing and were analyzed for dichloroethylene, 1,1,1-trichloroethane, and trichloroethylene. These results will be used in evaluating the air stripping system in the Feasibility Study (FS) Report.

Upcoming Activities

Remcor will conduct an aquifer pumping test during the week of October 2, 1988. Results of the test will be evaluated during the remainder of October and incorporated into the RI Report. A review of the man-made wetlands north of the BES plant will be performed during the week of October 2.

Submittal of the Draft RI Report for review by the U.S. Environmental Protection Agency (EPA) has been delayed until mid-November, with EPA approval. Submittal of the Draft FS Report is currently projected, as originally scheduled, for early December, and submittal of the Final Draft RI/FS Report is anticipated in mid-February 1989.

Description of Problems Encountered

Remcor had anticipated starting the aquifer pumping test during the week of September 19, 1988. Delays encountered in installing and testing the air stripping tower caused this test to be delayed approximately two weeks until the week of October 2. On September 21, 1988, Remcor advised Ms. Patricia Tan, EPA Regional Project Manager, of the delay and requested that submittal of the draft RI report be delayed accordingly until mid-November. Ms. Tan concurred with the schedule revision.

200524



file

REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

November 2, 1988

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal  
Project Status Report - October 1988  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is pleased to forward the October 1988 monthly status report for the above-captioned project. With this month's activities, we have concluded the field investigation and much of the final data reduction and evaluation necessary to prepare the draft remedial investigation (RI) report. At this time, we anticipate submitting the draft RI Report to you for review during the week of November 20, 1988.

Please feel free to contact us if you have any questions or comments relative to this project.

Very truly yours,

John A. George  
Project Manager

JAG:jll  
Enclosure

cc: (all w/att)  
Mr. Thomas F. Sheehan  
Mr. Jeffrey P. Orient  
Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF: OCTOBER 1988

Actions Taken During the Reporting Period

Remcor personnel mobilized to the site on Sunday, October 2, and Monday, October 3, 1988, to prepare for the long-term aquifer pumping test at Bally Municipal Well No. 3. Continuous water level recorders were checked and Well No. 3 was pumped briefly to determine the rate of drawdown expected in the pumping well, as well as to determine the maximum stable pumping rate. The aquifer test was initiated at 9:10 A.M. on October 4. Pumping continued at a constant rate of 243 gallons per minute (gpm) for a period of 72 hours until 9:10 A.M., October 7, 1988. Remcor then monitored the recovery of the aquifer until recovery was complete on Saturday, October 8, 1988.

On October 3, 1988 Remcor also performed an assessment of the wetland north of the Bally Engineered Structures (BES) plant. The assessment included stream gaging at measured channel cross sections and evaluation of wetlands vegetation.

During the remainder of the reporting period, Remcor was engaged in reduction and evaluation of the pumping test data and completion of the hydrogeologic assessment of the site for inclusion in the remedial investigation (RI) report.

Results of Field Environmental Measurements

Water level measurements in all monitoring wells were obtained during the week of October 2 and continuous water level measurements were obtained from the recorders during the pumping and recovery periods. These results will be incorporated into the RI report.

In addition, samples from the inlet to and outlet from the air stripper were obtained daily during the pumping test and were analyzed for dicloroethylene, 1,1,1-trichloroethane, and trichloroethylene. These results will be used in evaluating the air stripping system in the feasibility study (FS) report.

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Upcoming Activities

Remcor will conclude the evaluation of the aquifer test data and will summarize all site data in an RI report to be submitted to the EPA during the week of November 20, 1988.

During this period Remcor will have completed all necessary testing of the air stripping system, and will develop the FS report to be submitted to the EPA in December 1988.

Description of Problems Encountered

No problems were encountered during the reporting period. Field work is now concluded with the completion of the aquifer test and no further delays are anticipated in submittal of the project reports.

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REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

December 7, 1988

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal  
Project Status Report - November 1988  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is forwarding a status report for November 1988 for the above-captioned project. As you are aware, submittal of the draft Remedial Investigation (RI) Report was made on December 6, 1988.

We look forward to meeting with you at 10:00 on December 19, 1988 to discuss the general status of the remedial investigation/feasibility study (RI/FS) and to review the results of the recently-completed RI.

Please feel free to contact us if you have any questions.

Very truly yours,

John A. George  
Project Manager

JAG:jll  
Enclosure

cc: (all w/att)  
Mr. Thomas F. Sheehan  
Mr. Jeffrey P. Orient  
Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF: NOVEMBER 1988

Actions Taken During the Reporting Period

Data reduction and remedial investigation (RI) report preparation were ongoing during the reporting period. In particular, reduction of the data obtained during the 72-hour pumping test of Municipal Well No. 3 was completed.

Results of Field Environmental Measurements

No field work was conducted during this period.

Upcoming Activities

RI report preparation will be completed and a draft RI Report will be submitted to the U.S. Environmental Protection Agency, Region III on or before December 6, 1988.

Through discussions with Ms. Patricia Tan, EPA Regional Project Officer, Remcor has scheduled a meeting at EPA Region III offices on December 19, 1988. The purpose of this meeting will be to provide an update relative to the current status of the remedial investigation/feasibility study (RI/FS), and to discuss the findings of the RI. In addition, we will discuss efforts that have been ongoing for the past year to provide air stripping treatment at Bally Municipal Well No. 3 so that this well may again be used by the Borough to supplement their municipal water supply.

Description of Problems Encountered

Remcor advised Ms. Tan on November 30, 1988 that submittal of the draft RI report would be delayed until the week of December 4, 1988. In addition, Remcor anticipates that the December 19 discussion will provide additional direction regarding the FS. At this time, we anticipate completion of the FS for submittal to the EPA in January 1989.

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AR300529



"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"





REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

January 12, 1989

Project No. 88546

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection  
Agency, Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal  
December 1988 Monthly Status Report  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is forwarding a status report for December 1988 for the above-captioned project. We had reviewed project status in detail during our December 19, 1988 meeting. This status report incorporates a brief summary of that meeting, as well.

I will be in contact with you in the near future relative to the action items from our December meeting. In the interim, please feel free to contact me if you have any questions or comments on the enclosed.

Very truly yours,

*John A. George*

John A. George  
Project Manager

JAG:wdi  
Attachment

cc: Mr. Thomas F. Sheehan (all w/att)  
Mr. Jeffrey P. Orient  
Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

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MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
DECEMBER 1988

886581

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
DECEMBER 1988

Actions Taken During the Reporting Period

The draft remedial investigation (RI) Report was completed and forwarded to the U.S. Environmental Protection Agency (EPA) Region III for review on December 7, 1988. A project status meeting was held in EPA offices on December 19, 1988, with the following participating:

Ms. Patricia Tan	- EPA Regional Project Manager
Mr. Thomas Sheehan	- Pennsylvania Department of Environmental Resources (PADER)
Mr. Jeff Orient	- NUS Corporation (NUS)
Mr. Joseph Kasper	- Project Geologist, Remcor, Inc. (Remcor)
Mr. William Rosenbaum	- Manager, Design Engineering, Remcor
Mr. John George	- Project Manager, Remcor.

The three principal topics of discussion at the project status meeting were as noted:

- Overview of the RI site characterization from the perspective of hydrogeologic conditions and nature and extent of contamination
- Review of RI Endangerment Assessment
- Discussion of implementation of treatment at Bally Municipal Well No. 3 to provide an alternative water supply for the borough.

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A proposed outline of the feasibility study (FS) report was provided for review and concurrence by the EPA. This outline focuses on evaluation of ground water extraction and treatment methodologies to address the aquifer contamination.

Remcor suggested that a prudent remedial action would be to pump Bally Municipal Well No. 3 with treatment on a continuous basis, both to provide an alternative water supply to the borough and to examine the potential effect of long-term pumping at this point on aquifer remediation. If this action proves to be the recommended remedial alternative following conclusion of the FS, a record of decision (ROD) could be written to enable this action to be implemented while providing for review of the need for additional actions, as required. Mr. Sheehan indicated that PADER would like to see pumping of the municipal well initiated as soon as possible.

Both NUS and EPA suggested that additional investigation would be required immediately north of the Bally Engineered Structures (BES) plant to determine whether an active source of chlorinated volatile organic compounds (VOCs) exists in this area. Such a source was not found at likely candidate source areas within the BES plant during the RI.

Action items resulting from the meeting were as follows:

Remcor:

- Provide design drawings to Ms. Tan for the air stripping treatment system installed at Bally Municipal Well No. 3
- Prepare a scope of work for the necessary additional source characterization studies and submit for EPA review and approval prior to conducting the studies
- Review PADER permit requirements for operation of the air stripping treatment system and notify Mr. Sheehan of any potential delays in initiating pumping at Bally Well No. 3 as a result of the permitting process.

EPA/PADER:

- Complete review of draft RI and provide comments to Remcor in mid-January
- Review proposed FS Report outline and provide comments to Remcor
- Provide guidance to Remcor relative to ground water cleanup standards that EPA considers applicable or relevant and appropriate at this site (particularly considering the limited estimated capability of pumping at Bally Well No. 3 to capture low-level VOCs at the periphery of the contaminant plume).

With respect to the air stripping treatment system at Municipal Well No. 3, Remcor installed a second air stripping tower at the well during the reporting period. The need for a second treatment unit had been defined on the basis of preliminary system testing during September and October 1988.

Results of Field Environmental Measurements

No RI field work was conducted during this period. All data from the RI study were incorporated into the draft RI Report.

Upcoming Activities

Remcor will submit a work plan for conduct of the additional source characterization studies. It is anticipated that this work plan will be submitted in mid-January.

Remcor has initiated development of the draft FS Report in accordance with the outline submitted to the EPA on December 19, 1988. Completion of this document will be contingent upon EPA review and comment on the proposed outline, receipt of formal EPA comments on the draft RI Report, and completion of the additional source characterization studies. At this point, completion of the source characterization effort and submittal of the draft FS Report are anticipated during the spring of 1989. A more definite schedule will be provided upon EPA's approval of the scope of work for the source characterization.

Final testing of the air stripping treatment system will be conducted during January 1989. Assuming that the testing is successful, Remcor anticipates that pumping of the municipal well could be initiated in late-January or early-February 1989.

Description of Problems Encountered

No specific problems were encountered during the reporting period.

300035



Ken Yoder 270-1729

REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

February 2, 1989

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal

- 1) January 1989 Monthly Status Report
- 2) Work Plan - Additional Source Investigation  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is forwarding a status report for January 1989 for the above-captioned project. We have also attached one bound and one unbound copy of our work plan for the Additional Source Investigation for your review. Copies of both of these submittals have also been forwarded with this correspondence to Mr. Jeff Orient, NUS Corporation, and Mr. Thomas Sheehan, Pennsylvania Department of Environmental Resources.

Please feel free to contact us if you have any questions or comments on the enclosed.

Very truly yours,

John A. George  
Project Manager

JAG:em

cc: (all w/att)  
Mr. Thomas F. Sheehan  
Mr. Jeffrey P. Orient  
Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

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AR300536

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF: JANUARY 1989

**Actions Taken During the Reporting Period**

During this period, Remcor undertook preliminary definition of Applicable, or Relevant and Appropriate Regulations (ARARs) as a basis for establishment of remedial action alternatives in the feasibility study (FS). Remcor also continued to develop the FS Report consistent with the outline provided to the U.S. Environmental Protection Agency (EPA) for review on December 19, 1988 technical review meeting.

In addition, Remcor developed a scope of work for the additional source investigation requested by EPA. This scope was discussed with Ms. Patricia Tan, Regional Project Manager, on January 19, 1989.

**Results of Field Environmental Measurements**

No field work was conducted during this period.

**Upcoming Activities**

Remcor will submit a work plan for conduct of the additional source characterization studies on February 2, 1989. Within two weeks of EPA's approval of this work plan, Remcor will mobilize to the site to perform the work. A one-week field effort is anticipated and four weeks have been allotted for completion of laboratory analysis. Assuming EPA approval of the work plan by mid-February, the additional source investigation would be completed with data available by early April for inclusion in the FS Report.

Remcor will submit a preliminary summary of site-specific ARARs in early February as a basis for agreement on pertinent ARARs with the EPA and the Pennsylvania Department of Environmental Resources (PADER).

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"REALISTIC SOLUTIONS FOR HAZARDOUS WASTE PROBLEMS"



Remcor will continue to develop the draft FS Report while awaiting comments on the December 1988 draft Remedial Investigation (RI) Report and the proposed FS Report outline from the EPA and PADER.

The start of continuous pumping and treatment at Bally Municipal Well No. 3 has been scheduled for the week of January 30, 1989. Pumping during the month of February will conclude final testing of the treatment system. No problems are anticipated during final testing that will prevent continuous pumping thereafter.

#### **Description of Problems Encountered**

Remcor is awaiting comments on the draft RI Report and preliminary FS Report outline. Because production of the draft FS Report is contingent upon completion of the additional source investigation, submittal of these review comments has no immediate impact on project schedule.



REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

May 3, 1989

Project No. 88548

Ms. Patricia Tan 3HW17  
Regional Project Manager  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Street  
Philadelphia, PA 19107

Transmittal  
April 1989 Monthly Status Report  
Remedial Investigation/Feasibility Study  
Bally Engineered Structures Site  
Bally, Pennsylvania

Dear Ms. Tan:

On behalf of our client, Allegheny International, Inc. (AI), Remcor, Inc. (Remcor) is forwarding a status report for April 1989 for the above-captioned project. Copies of this submittal have also been forwarded to Mr. Jeff Orient, NUS Corporation, and Mr. Kenneth Yoder, Pennsylvania Department of Environmental Resources.

As we had discussed on April 28, 1989, Remcor anticipates submittal of the draft final RI Report and draft FS Report for your review by May 12, 1989.

Please feel free to contact us if you have any questions or comments on the enclosed.

Very truly yours,

John A. George  
Project Manager

cc: (all w/att)  
Mr. Jeffrey P. Orient  
Mr. Kenneth Yoder  
Mr. Stephen M. Wilner  
Robert L. Collings, Esquire

MONTHLY STATUS REPORT TO EPA REGION III  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
BALLY ENGINEERED STRUCTURES SITE  
BALLY, PENNSYLVANIA  
MONTH OF: APRIL 1989

**Actions Taken During the Reporting Period**

Final analytical data from the additional source investigation performed during March were received in early April and incorporated into a draft final version of the Remedial Investigation (RI) Report. All other EPA comments received on the draft RI Report (December 1988) were addressed and incorporated as appropriate into the draft final RI Report.

Remcor, Inc. (Remcor) personnel attended a meeting with Mr. Stephen M. Wilner of Allegheny International, Inc. (AI); Robert L. Collings, Esquire; Ms. Patricia Tan (EPA Regional Project Manager); Mr. Ken Yoder (Pennsylvania Department of Environmental Resources [PADER]); and Mr. Jeff Orient (NUS Corporation) on April 11, 1989. The purpose of this meeting was to discuss the results of the additional source investigation, as well as a preliminary definition of applicable, or relevant and appropriate regulations (ARARs) and remedial action alternatives provided by Remcor to the EPA in correspondence dated April 4, 1989.

On April 28, 1989, Remcor received EPA's definition of ARARs relative to air emissions from air stripping towers to be considered as potential components of remedial action at the site and discussed preliminary remediation levels with respect to ground water.

Bally Well No. 3 was pumped continuously to waste during the reporting period as part of a final testing period on the treatment efficiency of the air stripping towers. Regular measurements were made of the total VOC levels in the well effluent and the treated discharge from the air stripping towers to the unnamed tributary to West Branch Perkiomen Creek during this period. In all cases, the treated discharge met the criteria stated in both the draft National Pollutant Discharge Elimination System (NPDES) permit and the PADER Water Quality Permit.

AR300540

**Results of Field Environmental Measurements**

No field environmental measurements pursuant to the RI/FS were made during the reporting period.

**Upcoming Activities**

Remcor will complete a draft final RI Report and draft FS Report for submittal to the EPA by May 12, 1989.

**Description of Problems Encountered**

As a result of our discussions on April 11, 1989, Remcor elected to obtain additional vendor quotes to support detailed evaluation of a number of potential remedial actions. Primarily due to delays in vendor response, Remcor had requested an extension until May 19, 1989 from Ms. Patricia Tan to submit the draft FS Report. Remcor has agreed to submit this draft report by May 12, 1989, however, so that the EPA review process can be initiated.

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